



Features

- SLC-NAND flash technology
- Support PC Card Memory mode or True IDE mode
- Optional rugged metal frame
- Ultra-high random read/write speed
- Support S.M.A.R.T. command set and utility
- Support C.H.S./LBA customization
- Support Power Loss Protection
- Capacities from 128MB up to 64GB

Specification

- **Compatibility** CompactFlash® specification 6.1
Compatible with ATA/ATAPI-7
- **Declarations** RoHS & REACH compliant
- **Flash technology** SLC-NAND flash technology
- **Form-factor** CompactFlash® Type I
- **Host interface** Female 50 pins
- **Performance**
 - **Data transfer rate** PIO 2~6, MWDMA 0~4, UDMA 0~6
 - **Sequential read** 64.8 MB/sec (Max.)
 - **Sequential write** 55.7 MB/sec (Max.)
 - **4KB random read** 9.5 MB/sec (Max.)
 - **4KB random write** 9.3 MB/sec (Max.)
- **Environmental**
 - **Operating temp.** STD. 0°C~+70°C/IND. -40°C~+85°C
 - **Non-operating temp.** STD. -20°C~+80°C/IND.-50°C~+95°C
 - **Humidity** 10% ~ 95% non-condensing
 - **Vibration** 70 Hz to 2K Hz, 15G, 3 axes
 - **Shock** 0.5ms, 1500 G, 3 axes
 - **Altitude** 70,000 feet

- **Power consumption**
 - **Power requirement** +5V ± 10% / + 3.3V ± 10%
 - **Reading mode** 122 mA (Max.)
 - **Writing mode** 131 mA(Max.)
 - **Idle mode** 4.4 mA (Max.)
- **Reliability**
 - **Wear-leveling** Static, Dynamic and Global Wear Leveling algorithms
 - **TBW** Up to 451.7 TBW at 64GB Capacity (Client workload by JESD-219A)
 - **MTBF** > 3,000,000 hours
 - **Erase counts** Up to 60,000 times
 - **ECC** 96 bits per 1024 bytes block
- **Physical specification**
 - **Weight (Max.)** Plastic frame : 12g
Rugged metal frame : 14g
 - **Dimension (WxLxH)** 42.8 x 36.4 x 3.3 (mm)
- **Conformal coating** Optional
- **Warranty**
 - **SLC STD. grade** 3 years or within 60,000 erasing counts
 - **SLC IND. grade** 5 years or within 60,000 erasing counts

Part Number List

Standard plastic frame CFC			Optional rugged metal CFC		
Capacity	0°C~+70°C	-40°C~+85°C	Capacity	0°C~+70°C	-40°C~+85°C
128MB	SPCFC128M-HFCTC-UF	WPCFC128M-HFITI-UF	128MB	SRCFC128M-HFCTC-UF	WRCFC128M-HFITI-UF
256MB	SPCFC256M-HFCTC-UF	WPCFC256M-HFITI-UF	256MB	SRCFC256M-HFCTC-UF	WRCFC256M-HFITI-UF
512MB	SPCFC512M-HFCTC-UF	WPCFC512M-HFITI-UF	512MB	SRCFC512M-HFCTC-UF	WRCFC512M-HFITI-UF
1GB	SPCFC001G-HFCTC-UF	WPCFC001G-HFITI-UF	1GB	SRCFC001G-HFCTC-UF	WRCFC001G-HFITI-UF
2GB	SPCFC002G-HFCTC-UF	WPCFC002G-HFITI-UF	2GB	SRCFC002G-HFCTC-UF	WRCFC002G-HFITI-UF
4GB	SPCFC004G-HFCTC-UF	WPCFC004G-HFITI-UF	4GB	SRCFC004G-HFCTC-UF	WRCFC004G-HFITI-UF
8GB	SPCFC008G-HFCTC-UF	WPCFC008G-HFITI-UF	8GB	SRCFC008G-HFCTC-UF	WRCFC008G-HFITI-UF
16GB	SPCFC016G-HFCTC-UF	WPCFC016G-HFITI-UF	16GB	SRCFC016G-HFCTC-UF	WRCFC016G-HFITI-UF
32GB	SPCFC032G-HFCTC-UF	WPCFC032G-HFITI-UF	32GB	SRCFC032G-HFCTC-UF	WRCFC032G-HFITI-UF
64GB	SPCFC064G-HFCTC-UF	WPCFC064G-HFITI-UF	64GB	SRCFC064G-HFCTC-UF	WRCFC064G-HFITI-UF

Part Number Decoder

X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	X15	X16	X17	X18	X19	X20
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Example

W	P	C	F	C	0	6	4	G	-	H	F	I	T	I	-	U	F	C	
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X1 Grade

S : Standard grade operating temp. 0°C~+70°C
W: Industrial grade operating temp. -40°C~+85°C

X2 The material of casing

P : Plastic frame
R : Rugged metal frame

X3 X4 X5 Product category

CFC : CompactFlash® Card

X6 X7 X8 X9 Capacity

128M : 128MB 002G : 2GB 032G : 32GB
256M : 256MB 004G : 4GB 064G : 64GB
512M : 512MB 008G : 8GB
001G : 1GB 016G : 16GB

X11 Controller

H : HERMIT Series

X12 Controller version

A, B, C, D.....

X13 Controller grade

C : Commercial grade
I : Industrial grade

X14 Flash IC brand

T : Toshiba SLC-NAND flash IC

X15 Flash IC grade

C : Commercial grade
I : Industrial grade

X17 X18 Data transfer rate / Disk types

PF : Optional as PIO-6 mode / Fixed disk type
PR : Optional as PIO-6 mode / Removable disk type
UF : Defaulted as UDMA-6 mode / Fixed disk type
UR : Optional as UDMA-6 mode / Removable disk type
AA : Optional as Autosense UDMA or PIO mode / Autosense removable disk type or fixed disk type

X19 X20 Reserved for specific requirements

C : Conformal coating (optional)

SLC
oSLC
MLC
3D-NAND
DRAM Module
Adapter
Card-drive